



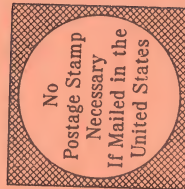
Thank you for your recent inquiry.

The enclosed information will help you become familiar with Metalphoto. We will be pleased to answer any of your technical questions about Metalphoto.

Your needs for Metalphoto plates, in trial or production quantities, will be met promptly.

METALPHOTO CORPORATION

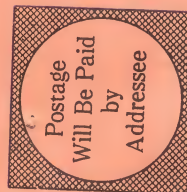
18531 South Miles Road
Cleveland 28, Ohio



BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 13184
CLEVELAND, OHIO

METALPHOTO CORPORATION
18531 SOUTH MILES ROAD
CLEVELAND 28, OHIO



**Please send me _____ Metalphoto Trial Kit No. 10 @ \$10.00 each
and _____ Metalphoto Trial Kit No. 25 @ \$27.25 each**

NAME _____ Title _____

COMPANY _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

The No. 10 Kit contains 12 plates 4" x 5", 3 test strips, image toner, developer and fixer.

The No. 25 Kit contains 12 plates 4" x 5", 3 plates 8" x 10", 6 test strips, image toner, developer, fixer and 5 colors.

☐ **Check accompanies order.**

☐ **Please bill me.**

WHAT ARE METALPHOTO PLATES?

... the low-cost in-plant method for producing permanent panels, wiring diagrams, schematics, in minutes ... using standard film negatives and darkroom techniques.

ADVANTAGES of Metalphoto:

✓ **Permanence; indestructibility.** Can't destroy the image without destroying the metal itself!

- Impervious to salt spray ... organic solvents, lubricants;
- Impervious to scratching, cracking, crazing, peeling;
- Resistant to fading, fungus, mold, temperature extremes;
- Can withstand repeated scouring; if spray painted, easily restored to original brilliance and legibility.

✓ **Versatility.** Reproduce any image with standard darkroom methods.

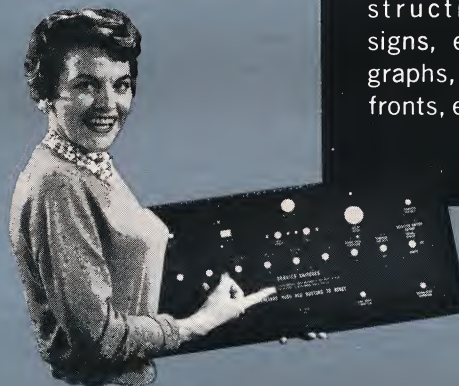
✓ **Speed of processing.** Produce in minutes what once took days or weeks.

✓ **Attractive:** Glistening surface; sharp images with fine detail, and can be attractively colored in any of six tints.

They are blank, photo-sensitive aluminum plates, in which photo-images are imbedded in a layer of aluminum oxide beneath a sapphire-hard anodized layer. Not a surface coated emulsion, but imbedded in metal beneath a smooth, polished surface impervious to heat, salt, weather, abrasion!

HOW are they used?

Anything which can be photographed can be reproduced permanently in Metalphoto plates. Ideal for instrument panels, dials, instructions, labels, signs, exterior photographs, plaques, panel-fronts, etc.



OTHER METALPHOTO BENEFITS:

- **LOW COST** — less than other competitive processes because materials are relatively inexpensive and special skills or training are not necessary.
- **WORKABILITY.** Processed plates may be cut, drilled, shaped and cold-formed in a wide range of operations.
- **DIMENSIONAL STABILITY.** Unaffected by humidity, aging, warping. Image dimensions vary only by the thermal expansion and contraction of the metal itself: very slight.
- **DETAIL:** degree of resolution surpasses all other known photographic materials; permits extreme reduction without loss of detail.

TYPICAL USERS OF METALPHOTO: Ansco Division of General Aniline and Film Corp., Avco Mfg., Bausch & Lomb, Bendix, Bethlehem Steel, Cleveland Museum of Art, Convair and Electric Boat Divisions of General Dynamics, Eastman Kodak, Erie Railroad, Federal Telecommunications Labs Division of ITT, General Electric, Ingalls Shipbuilding, Iron Fireman, George J. Mayer, Newport News Shipbuilding, New York Shipbuilding, Texas Nameplate, Thompson Ramo Wooldridge, University Hospital (Cleveland), Warner & Swasey, Western Electric, Westinghouse and White Motor.

MARKER TAIL HEAD TRANS PANEL DOME CAB TILT STAT CONTROLS VENT WINDOW

NEUTRAL



18531 South Miles Road • Cleveland 28, Ohio

SQUARE TURRET FEEDS						HEXAGON TURRET FEEDS		
CROSS	LONG.	CROSS	LONG.	CROSS	LONG.			
.0006	.0012	.0009	.0019	.0014	.0029	.0228	.0017	.0011
.0024	.0049	.0037	.0076	.0057	.0118	.0114	.0071	.0044
.0012	.0024	.0018	.0038	.0028	.0059	.0056	.0035	.0022
.0048	.0098	.0074	.0151	.0115	.0236	.0228	.0141	.0091
.0024	.0049	.0037	.0075	.0057	.0117	.0113	.0070	.0044
.0096	.0196	.0147	.0303	.0229	.0472	.0455	.0283	.0184
.0047	.0097	.0073	.0150	.0114	.0234	.0226	.0140	.0090
.0191	.0392	.0295	.0606	.0459	.0943	.0910	.0565	.0366

■ NO. 3 POSITION STANDARD

MAXIMUM AMPERES	BLOWER MOTOR	1.4
	VIBRATOR MOTOR	0.2
110 VOLTS, 60 CYCLES	RECEPTACLE OUTLET	6.0

JOAN KUNZE



METALPHOTO

The chemicals and other items listed here are tailored to give best results in processing Metalphoto plates. We have compiled this list even though many of them are standard photographic items, and are available from most well stocked photo dealers.

Chemicals

METALPHOTO DEVELOPER . .	[	DM-2-1 —8 oz. dilutes to 1 quart.....	\$.55
		DM-2-4 —1 quart dilutes to 1 gallon.....	1.20
		DM-2-20—1 gallon dilutes to 5 gallons.....	4.50

Developer and Fixer packaged in handy plastic reusable bottles.
Metalphoto developer especially compounded for Metalphoto plates.

DM-44

In the past, recommended developers have been existing multi-purpose developers which worked well for Metalphoto processing. Metalphoto Corporation research team has now compounded a totally new single purpose developer tailored to give optimum results from Metalphoto plates.

METALPHOTO DEVELOPER . .	[	DM-44-1 —1 quart working strength.....	\$.75
		DM-44-4 —1 gallon working strength.....	1.65
		DM-44-20—5 gallons working strength.....	6.00

METALPHOTO FIXER	[	FM-1-1 —8 oz. dilutes to 1 quart.....	\$.45
		FM-1-4 —1 quart dilutes to 1 gallon.....	.95
		FM-1-20—1 gallon dilutes to 5 gallons.....	3.15

METALPHOTO CHEMICAL IMAGE TONER

Supplied in two bottles to make working solution.

Used to intensify image and insure rich black legend.

CT-100-1 —1 Quart Size—dilutes to 1 quart of working solution.....	\$ 1.95
CT-100-4 —1 Gallon Size—dilutes to 1 gallon of working solution.....	7.15
CT-100-20—5 Gallon Size—dilutes to 5 gallons of working solution.....	32.00

For larger quantities of Chemical Image Toner, write the factory and we will be happy to supply you with formulas for making your own very economically.

METALPHOTO CHEMICAL COLORSea. .95

Supplied in packs of dry powder to make 1 gallon of working solution.

Used to color the background of METALPHOTO plates.

GOLD	No. MT-110
COPPER	No. ND-120
RED	No. ZR-130
GREEN	No. CZ-140
BLUE	No. B-150

AVAILABLE IN FIVE COLORS . .

The five colors above were chosen for their good light-fast qualities. For an absolute sunfast Gold Color, we recommend the new GOLD No. LF-160—Dissolves in water to make one gallon working solution.....\$1.95



METALPHOTO SEALING ADDITIVE

For the maximum in abrasion and corrosion resistance, Metalphoto plates should be sealed in an acetate sealing solution. We have packaged one of the better formulas for your convenience in one and five gallon unit sizes.

SA-200-1	\$1.70
1 quart dilutes to one gallon working solution.	
SA-200-5	6.80
1 gallon dilutes to 5 gallons working solution.	

TRIAL KITS

Stock Number	Price
TRIAL KIT NO. 10	\$10.00

Metalphoto plates can be used for a great many time and cost saving products. In order to permit the new user to do research and experimental work, we package this kit which contains everything necessary to let you start with the least amount of time involved.

12	4" x 5" Metalphoto Plates	
3	1" x 5" Test Strips	
1	Chemical Image Toner	(1 qt.)
1	Developer	(1 qt.)
1	Fixer	(1 qt.)

Also contains processed sample and simplified instruction sheet.

Stock Number	Price
TRIAL KIT NO. 25	\$27.25

This kit is designed for the user to apply background color to his Metalphoto plates. A selection of plate sizes is included as well as processing chemicals and five Metalphoto Chemical Colors.

12	4" x 5" Metalphoto Plates	
3	8" x 10" Metalphoto Plates	
6	1" x 5" Test Strips	
1	Chemical Image Toner	(1 qt.)
1	Developer	(1 qt.)
1	Fixer	(1 qt.)
5	Metalphoto Chemical Colors	

(1 pkg. each Gold, Copper, Red, Green and Blue)
Complete processing instructions enclosed.

CARTRIDGE DEIONIZER	\$9.75
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Deionized water on tap—will purify tap water and produce the equivalent of single distilled water for make-up of solutions and sealing finished Metalphoto plates for pennies a gallon. This throw-away type cartridge changes color as it becomes depleted. Five gallons per hour capacity. Attaches to any standard water faucet.

WALL BRACKET FOR DEIONIZER	\$7.50
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Wall bracket including flow rate control valve, inlet hose with faucet adapter, and outlet tubing with a plastic ell.

METALPHOTO SEALING TANK	\$27.50
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Custom built for sealing Metalphoto plates. An upright tank 4"x11" by 15" deep. It can be placed on any one or two burner hotplate for heating. Plates sealed upright can be touching each other, therefore this tank can seal a good quantity of plates from size 4"x5" up to 10"x12" Econopak plates. These tanks can also be used for developing and fixing Metalphoto plates. Not to be used in toning step unless plastic lined.

Prices f.o.b. our plant Cleveland, Ohio, net 30 days.

Write for our Accessory and Equipment Catalog, if you haven't one in your file.



METALPHOTO CORPORATION

18531 SOUTH MILES ROAD • CLEVELAND 28, OHIO

Telephone: 475-0555

PRINTED IN U.S.A.

CATALOG and PRICES

Metalphoto

Photosensitive Aluminum Plates

The New Concept of Permanent Photographic
Reproductions in Anodized Aluminum Plates



METALPHOTO CORPORATION

18531 SO. MILES RD. • CLEVELAND 28, OHIO

Telephone: 475-0555

EFFECTIVE FEB. 1, 1963

WESTERN UNION — TELEX 098-478 — METLPHOTO WVHT



METALPHOTO PLATES

Metalphoto plates are photosensitive anodized aluminum plates which can be converted into practically any product imaginable, such as precision dials, panel fronts, instruction panels, commemorative award plaques, schematics, I.D. badges . . . This list can go on endlessly.

However, one point we would like to make clear is that Metalphoto plates are processed with no more effort than used to print a wallet photo from your favorite negative.

A negative, standard photographic chemicals and techniques used with Metalphoto plates will produce a permanent photographic reproduction. The image is locked in a clear, glass-like sapphire-hard, fully anodized layer. Metalphoto has been thoroughly tested by both government and industry and found to be, because of this layer, resistant to fire, acid, salt spray, abrasion, corrosion and sunlight, all of which would efface or destroy similar products.

It takes no special skill and requires no handling of corrosive or dangerous chemicals to quickly convert Metalphoto into any one of a number of useful and cost saving products.

METALPHOTO STOCK NUMBERING SYSTEM

F—Standard Cut Plate, one side printable

U—Econopak Plate, one side printable

K—Standard Cut Plate, both sides printable

UK—Econopak Plate, both sides printable

4 middle digits denote plate size

2 end digits denote thickness of plate, as follows:

40—.003" thick
32—.008" thick
28—.012" thick
24—.020" thick
20—.032" thick
14—.064" thick
8—.125" thick

Number in parenthesis following stock number denotes number of plates per box.

EXAMPLE: UK-1012-24(100)

Econopak, both sides printable, size 10"x12", .020" thick, 100 plates per box

NOTE:

To assure best handling of your order please specify stock number and number of plates per box.

All prices in this catalog apply to commercial specifications and cover sizes, thicknesses etc. which are produced commercially and to commercial tolerances.

Prices are F.O.B. our plant, Cleveland, Ohio, and are subject to change without notice.

State, local, or federal tax not included in the prices listed.

TERMS—NET 30 DAYS



METALPHOTO CORPORATION

18531 SO. MILES RD. • CLEVELAND 28, OHIO

Telephone: 475-0555

NEW METALPHOTO SIZES

ECONOPAK

24" x 30"

<u>Thickness</u>	<u>Stock No.</u>	<u>Plates Per Box</u>	<u>Price Per Box</u>
.020"	U-2430-24 (3)	3	\$ 78.65
.020"	U-2430-24 (30)	30	535.50

24" x 40"

<u>Thickness</u>	<u>Stock No.</u>	<u>Plates Per Box</u>	<u>Price Per Box</u>
.020"	U-2440-24 (3)	3	84.80
.020"	U-2440-24 (30)	30	714.00

10" x 12"

<u>Thickness</u>	<u>Stock No.</u>	<u>Plates Per Box</u>	<u>Price Per Box</u>
.003	U-1012-40 (100)	100	164.00

1/8" METALPHOTO PLATES

<u>Stock No.</u>	<u>Printable Area</u>	<u>Box of 3</u>		<u>4 to 12 Plates</u>		<u>13 Plates or More</u>	
		<u>Minimum Order</u>	<u>Price of Box of 3 plus this Price per each Plate in excess of 3</u>	<u>This Amount</u>	<u>Plus</u>	<u>This Price per each Plate in excess of 12</u>	
U-0319-8	3 1/2 x 19	15.75	5.00	60.75		4.60	
U-2024-8	20 x 24	103.70	31.95	390.50		29.50	
U-2430-8	24 x 30	194.40	58.30	719.25		55.10	

Same Quantity Discount applies as shown on Metalphoto Econopak Plates in Metalphoto Catalog effective 2/1/63

Eff. 3/15/64

METALPHOTO PLATES

CUT PLATES — ONE SIDE PRINTABLE

	SIZE 4" x 5"			SIZE 8" x 10"			SIZE 10" x 12"		
THICKNESS	STOCK NO.	PLATES Per Box	PRICE Per Box	STOCK NO.	PLATES Per Box	PRICE Per Box	STOCK NO.	PLATES Per Box	PRICE Per Box
.003"	F-0405-40 (12)	12	\$ 5.50	F-0810-40 (12)	12	\$17.00	F-1012-40 (12)	12	\$24.00
.008"	F-0405-32 (6)	6	\$ 4.25	F-0810-32 (6)	6	\$15.90	F-1012-32 (6)	6	\$21.10
.012"	F-0405-28 (6)	6	4.70	F-0810-28 (6)	6	16.75	F-1012-28 (6)	6	23.10
.020"	F-0405-24 (6)	6	4.85	F-0810-24 (3) F-0810-24 (12)	3 12	9.65 29.50	F-1012-24 (3) F-1012-24 (12)	3 12	13.20 42.75
.032"	F-0405-20 (6)	6	6.30	F-0810-20 (6)	6	20.40	F-1012-20 (6)	6	28.50
.064"	F-0405-14 (3)	3	4.90	F-0810-14 (3)	3	14.10	F-1012-14 (3)	3	19.95

TWO SIDES PRINTABLE PLATES

For two sides printable plates, add 20% to the price of the one side printable plates and change catalog number prefix from "F" to "K."

Metalphoto plates are most widely used in the .020" thickness.

When in doubt as to what thickness to use, we suggest the .020" thickness.

QUANTITY DISCOUNT

Quantity discounts are available on the METALPHOTO cut plates listed on this page only. On orders specifying shipments of these items to one place at one time, discounts may be made according to this schedule.

TOTAL VALUE OF ITEMS LISTED ON THIS PAGE

DISCOUNT

\$100—\$299	10%
\$300—\$999	15%
\$1,000 and over	20%

Please note that this discount schedule does not apply to chemicals, Trial Kits or other items specified on the following pages of this catalog.

TRIAL KITS

Stock Number

TRIAL KIT NO. 10

Price

\$10.00

Metalphoto plates can be used for a great many time and cost saving products. In order to permit the new user to do research and experimental work, we package this kit which contains everything necessary to let you start with the least amount of time involved.

- 12 4" x 5" Metalphoto Plates
- 3 1" x 5" Test Strips
- 1 Chemical Image Toner (1 qt.)
- 1 Developer (1 qt.)
- 1 Fixer (1 qt.)

Also contains processed sample and simplified instruction sheet.

Stock Number

TRIAL KIT NO. 25

Price

\$27.25

This kit is designed for the user to apply background color to his Metalphoto plates. A selection of plate sizes is included as well as processing chemicals and five Metalphoto Chemical Colors.

- 12 4" x 5" Metalphoto Plates
- 3 8" x 10" Metalphoto Plates
- 6 1" x 5" Test Strips
- 1 Chemical Image Toner (1 qt.)
- 1 Developer (1 qt.)
- 1 Fixer (1 qt.)
- 5 Metalphoto Chemical Colors

(1 pkg. each Gold, Copper, Red, Green and Blue)
Complete processing instructions enclosed.

Metalphoto Econopak Plates

STANDARD QUANTITY PACKAGES

METALPHOTO ECONOPAK plates are supplied with full printable area designated. They are untrimmed and as shipped have a tab on one end—convenient for darkroom handling and hanging.

ECONOPAK is the lowest cost way of buying METALPHOTO plates in larger quantities.

PRINTABLE AREA									
	10" x 12"			12" x 20"			20" x 24"		
THICKNESS	STOCK NO.	PLATES Per Box	PRICE Per Box	STOCK NO.	PLATES Per Box	PRICE Per Box	STOCK NO.	PLATES Per Box	PRICE Per Box
.008"	U-1012-32 (100)	100	\$225.00	U-1220-32 (3) U-1220-32 (100)	3 100	\$ 24.75 510.00	U-2024-32 (3) U-2024-32 (50)	3 50	\$ 47.25 515.00
.012"	U-1012-28 (100)	100	247.50	U-1220-28 (3) U-1220-28 (100)	3 100	27.45 555.00	U-2024-28 (3) U-2024-28 (50)	3 50	50.35 560.00
.020"	U-1012-24 (100)	100	264.00	U-1220-24 (3) U-1220-24 (100)	3 100	28.05 580.00	U-2024-24 (3) U-2024-24 (50)	3 50	51.75 585.00
.032"	U-1012-20 (60)	60	193.30	U-1220-20 (3) U-1220-20 (60)	3 60	31.10 414.00	U-2024-20 (3) U-2024-20 (30)	3 30	57.85 417.00
.064"	U-1012-14 (30)	30	140.25	U-1220-14 (3) U-1220-14 (30)	3 30	37.60 274.95	U-2024-14 (3) U-2024-14 (15)	3 15	73.55 288.75

THICKNESS	PRINTABLE AREA					
	24" x 30"			24" x 40"		
	STOCK NO.	PLATES Per Box	PRICE Per Box	STOCK NO.	PLATES Per Box	PRICE Per Box
.032"	U-2430-20(3) U-2430-20(15)	3 15	\$ 93.00 318.00	U-2440-20(3) U-2440-20(15)	3 15	\$124.00 424.00
.064"	U-2430-14(3) U-2430-14(9)	3 9	\$116.25 275.25	U-2440-14(3) U-2440-14(9)	3 9	\$155.00 367.00

For two side printable plates, add 20% to the one side printable price and change catalog number prefix from "U" to "UK."

SPECIAL SIZES

Prices for special size, special thickness, or special packaging for Metalphoto plates other than those listed in the catalog can be obtained by writing the factory.

1/8" METALPHOTO PLATES

(For Standard Relay Rack Panels)

QUANTITY DISCOUNT

The following quantity discounts are allowed on Metalphoto Econopak plates. Orders must specify shipment to one place at one time, but any combination of sizes in standard packaged quantities may be included to make up the total value.

\$ 1,500-\$ 3,000	-- 3%	\$15,001-\$20,000	--11%
3,001- 7,000	-- 5%	20,001- 25,000	--13%
7,000- 10,000	-- 7%	25,000 & over	--14%
10,001- 15,000	-- 9%		

STOCK NO.	PRINTABLE AREA	Box of 3	4 to 12 Plates	13 Plates or More	
		MINIMUM ORDER	Price of Box of 3 plus this Price per each Plate in excess of 3	THIS AMOUNT Plus ↓	This Price per each Plate in excess of 12
U-0519-8	5 1/4x19	\$29.50	\$ 7.50	\$ 96.75	\$ 6.30
U-0719-8	7x19	35.75	9.75	121.75	8.40
U-1019-8	10 1/2x19	48.25	13.75	172.00	12.60
U-1419-8	14x19	60.75	18.00	222.00	16.80
U-1719-8	17 1/2x19	73.25	22.25	272.25	21.00
U-2119-8	21x19	86.00	26.50	322.75	25.20
U-1012-8	10x12	32.00	8.75	110.75	7.60
U-1220-8	12x20	55.00	16.25	201.25	15.00

These Plates are Metalphoto Econopak Style

Furnished Oversize — Trim Area on All Sides

For two side printable plates, add 20% to the one side printable price and change catalog number prefix from "U" to "UK."